SSLWM paper B6 Luang Prabang13-12-2006

Criteria and indicators for ecosystem reward and compensation mechanisms: realistic, voluntary, conditional and pro-poor

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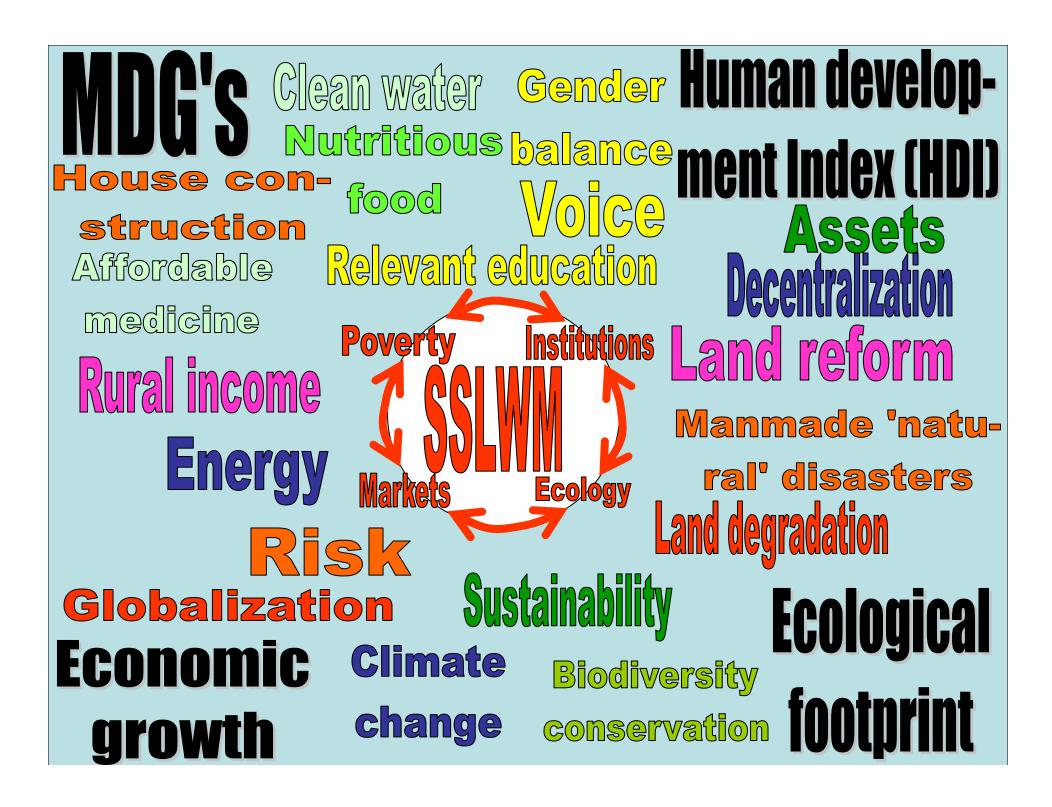


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 "...in order to develop tourism, we have paid more attention to environmental protection, particularly the green and sustainable management of watershed, lands and forests in order to attract more tourists."

Mr. Bounhueang Duangphachan, Provincial Governor, Luang Prabang in his welcome address to SSLWM workshop 12-12-2006



institutions & governance

Empowerment, Luman development Index (HDI)

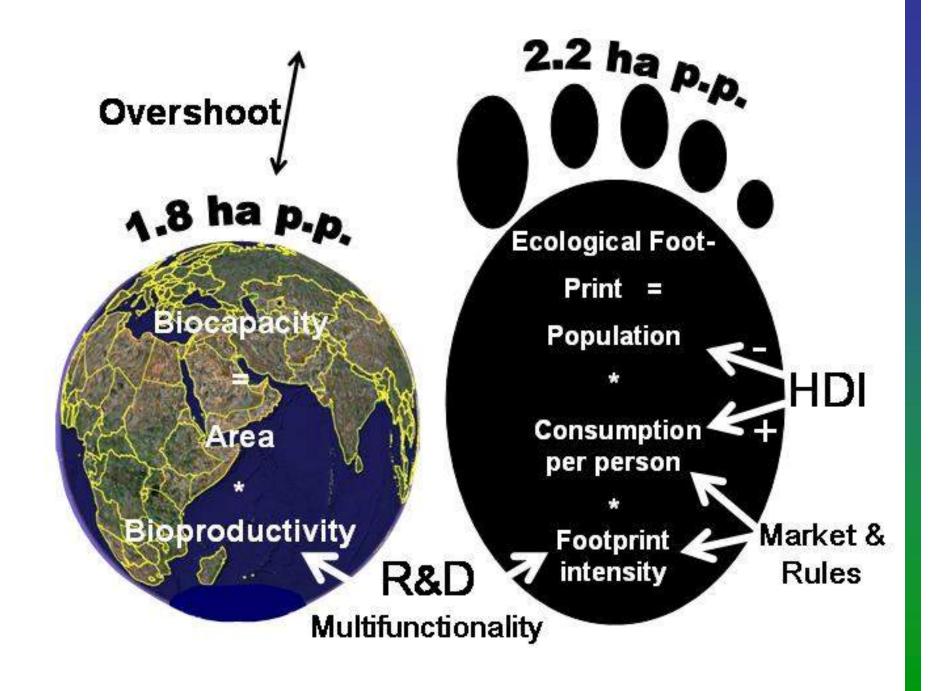
Market-driven production



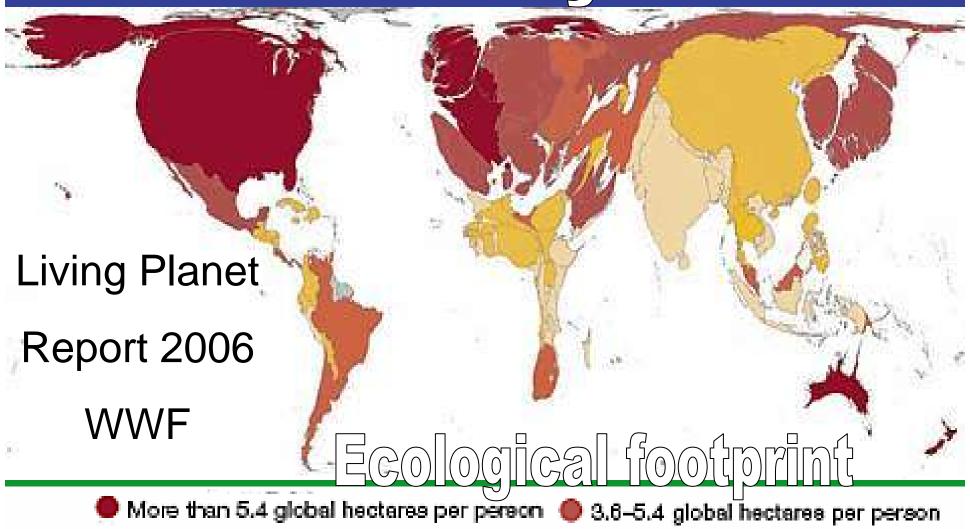
Land access and public environmental services

Markets for environmental services

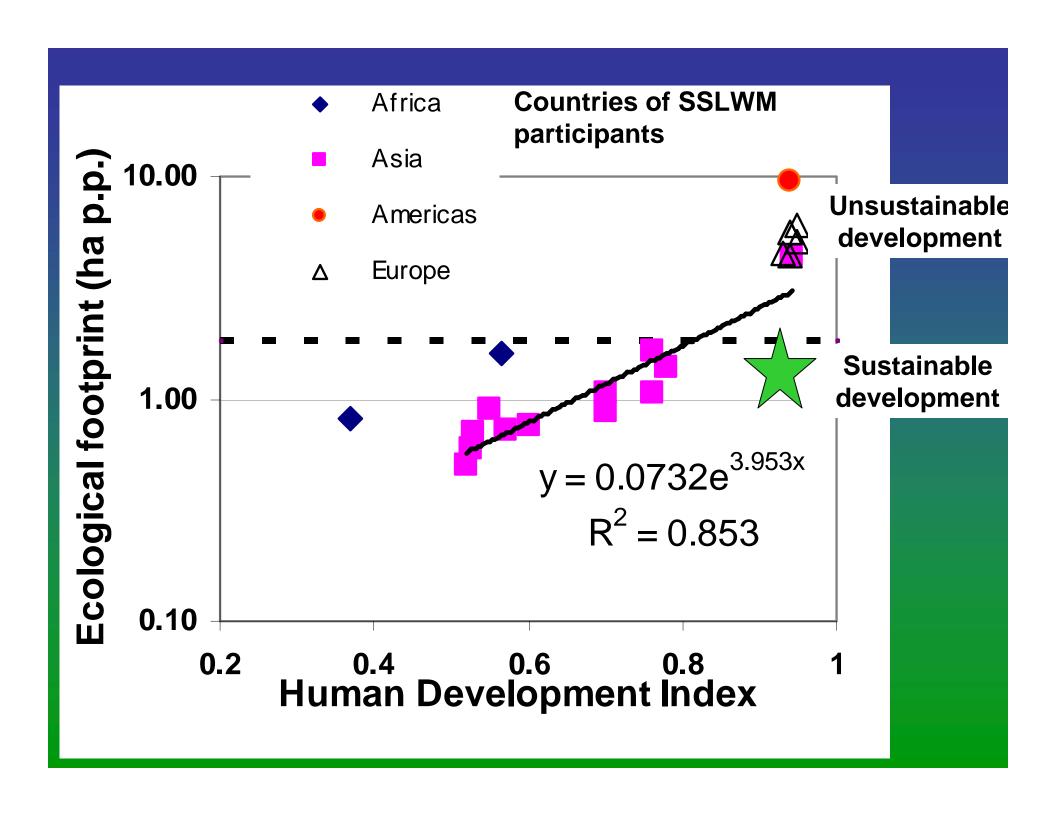
Ecological



Only one earth -but we already need 1.5



- 🔵 1.8–3.6 global hectaree per person
- 🜕 0.9–1.8 global hectares per person
- Less than 0.9 global hectares per person
- Insufficient data



'Natural' point of reference

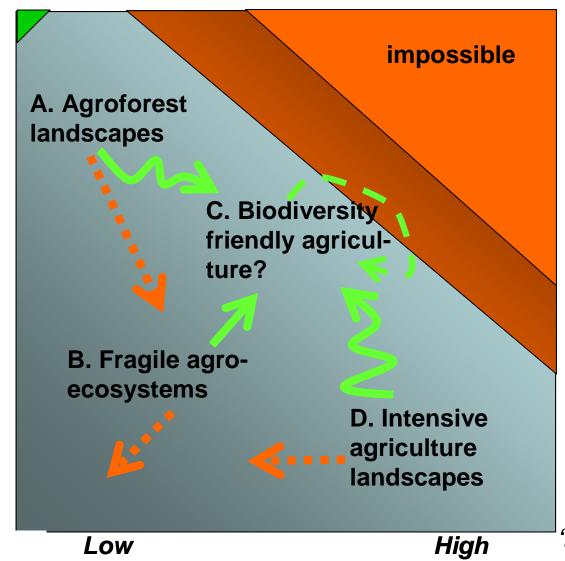
High

Ecosystem quality

Biodiversity

Environmental services

Low





Agricultural productivity: goods

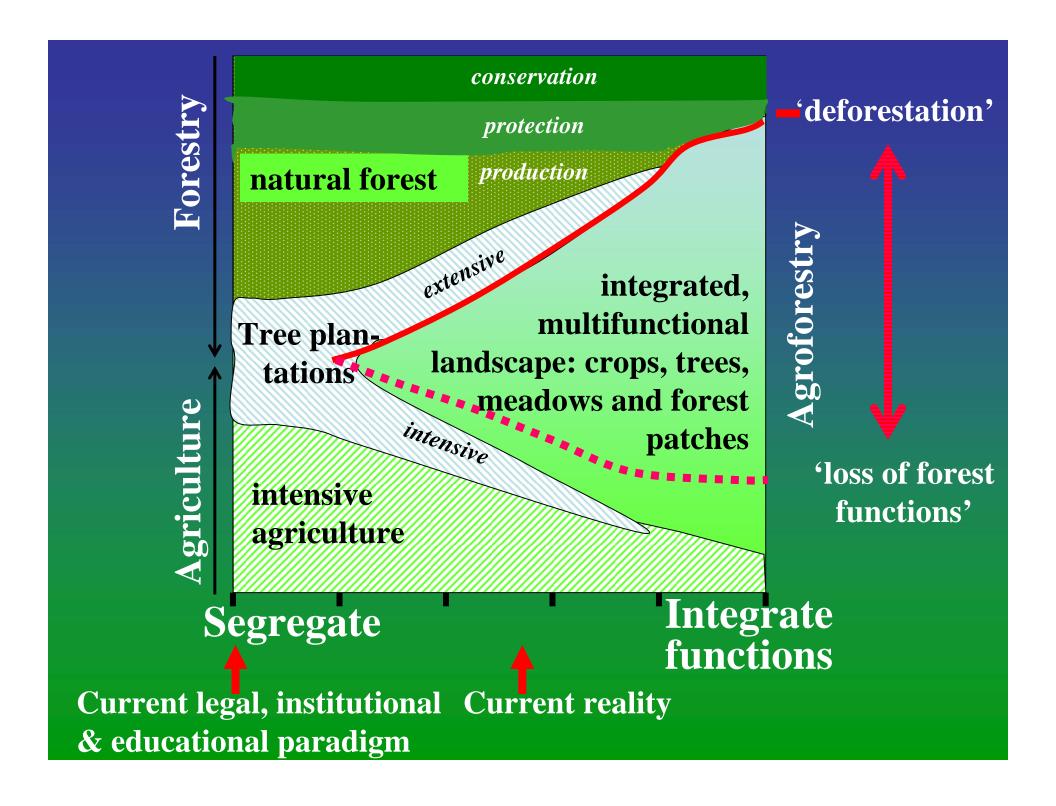
''Potential production' as reference

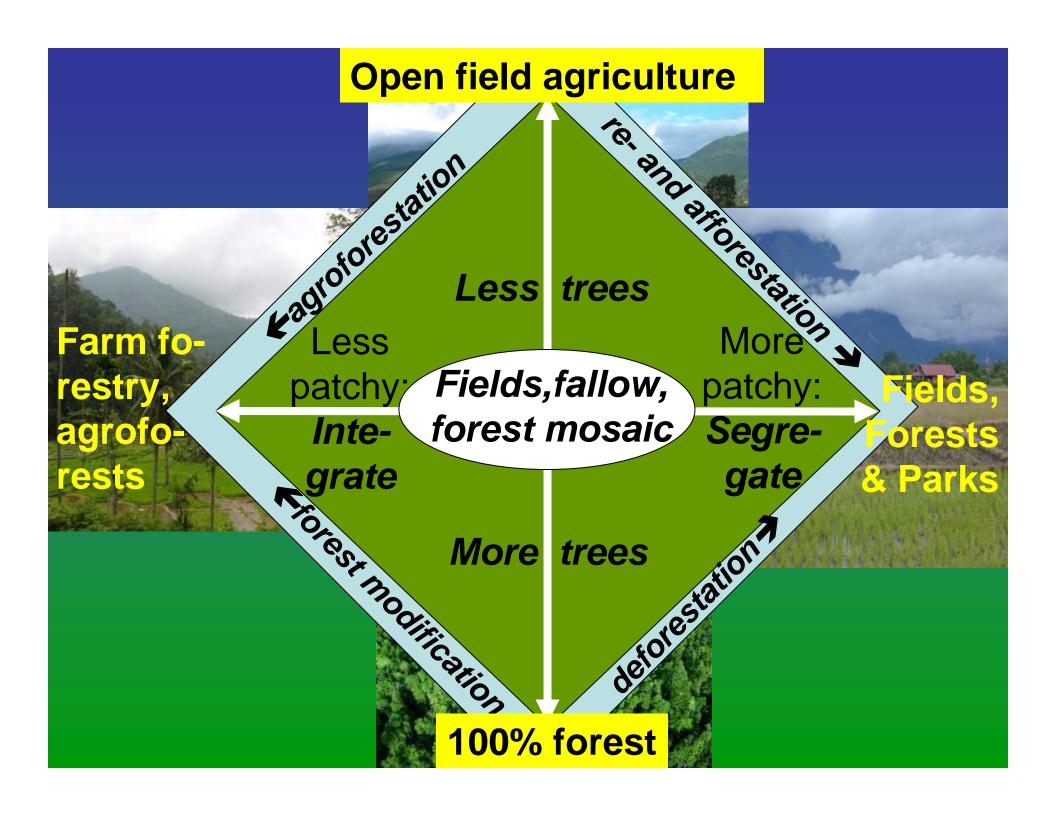


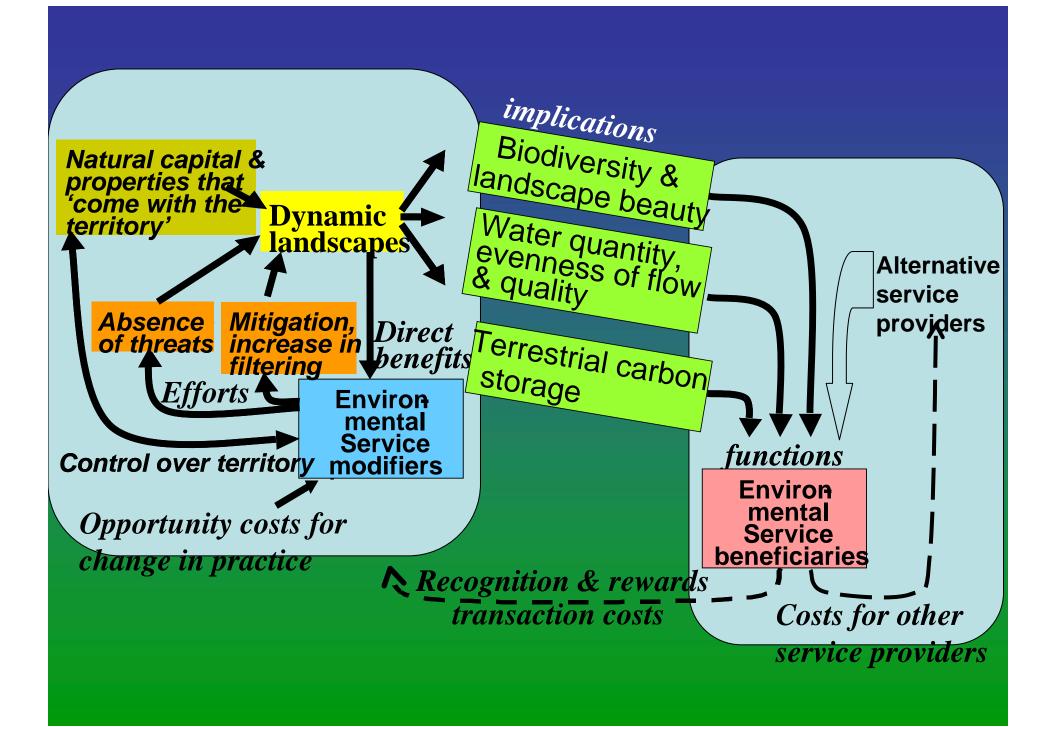
Pathways to be avoided

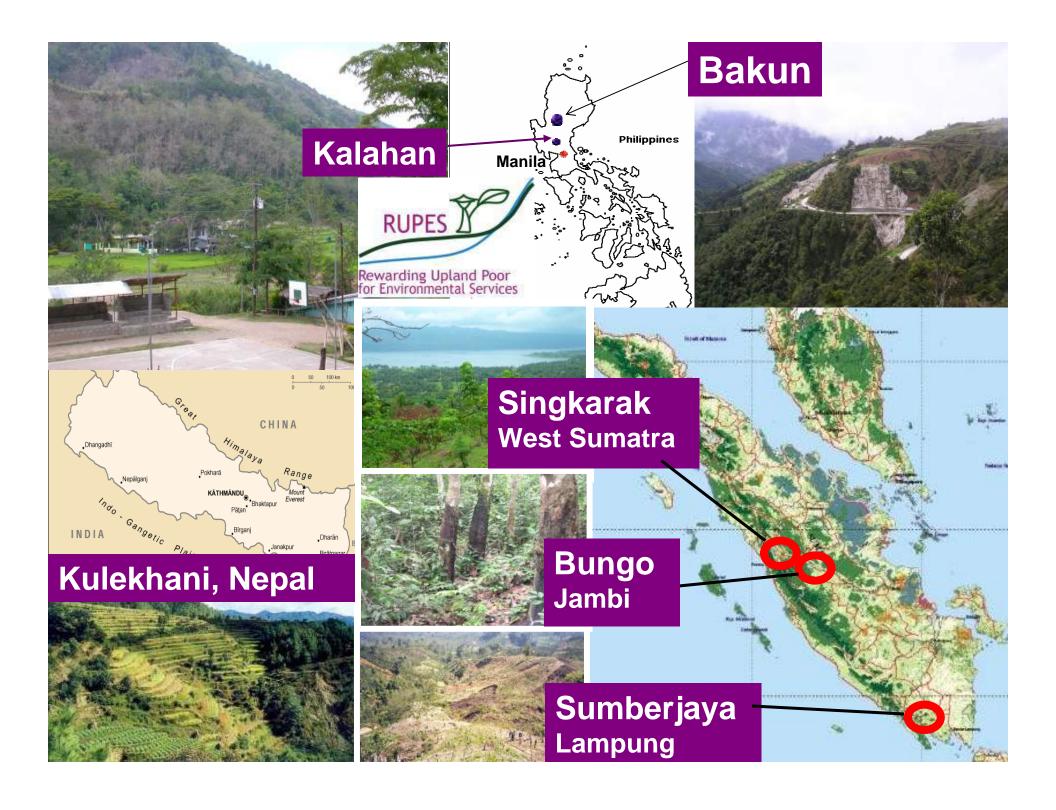


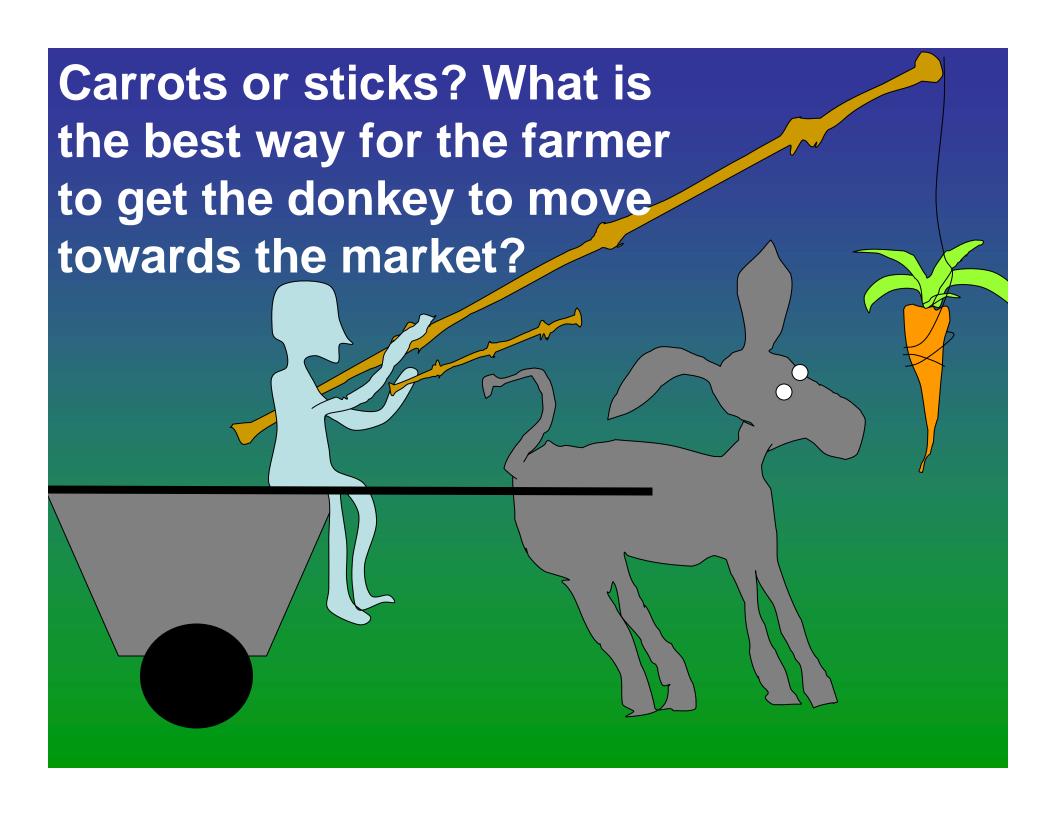
Socially desirable pathway











Regulate and/or reward

Who'll have to pay?

Who will monitor compliance?

Litigation

What will it cost?

Implement & • monitor

What can be done to stop, mitigate, undo or adapt?

Evaluate, re-assess

How much and where?

Who's to blame?

Is it a problem?

Cause-effect mechanisms

Scoping

Stakeholder analysis

Negotiation response

Implementation

Re-evaluation

Stage of the issue cycle

Public policy context:

Minimum acceptable behaviour and its effect on ES is set by regulation

Baseline of 'business as usual' under current driver conditions

Actor position

RED

Unacceptable environmental degradation

Amber

Current practice and 'rights to pollute'

Green

Maintenance and enhancement of ES

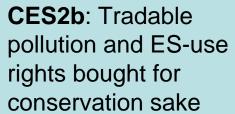
Trend Mechanism

(m)

CES1: Polluter pays compensation for damage inflicted

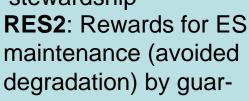


CES2a: Tradable pollution and ES-use rights used as 'offsets'





RES1: Rewards for ES enhancement through 'stewardship'



dians

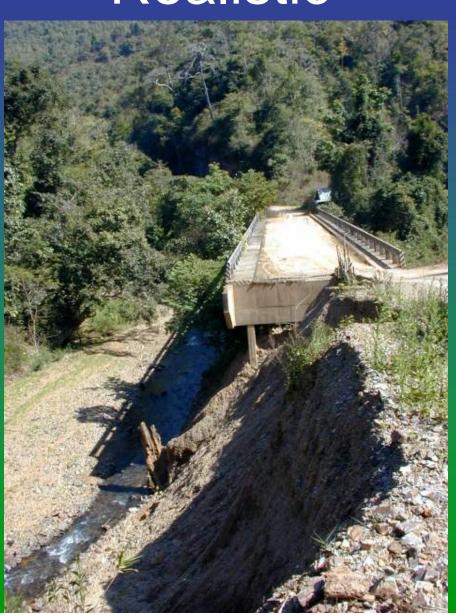
Four criteria for effective rewards for environmental services

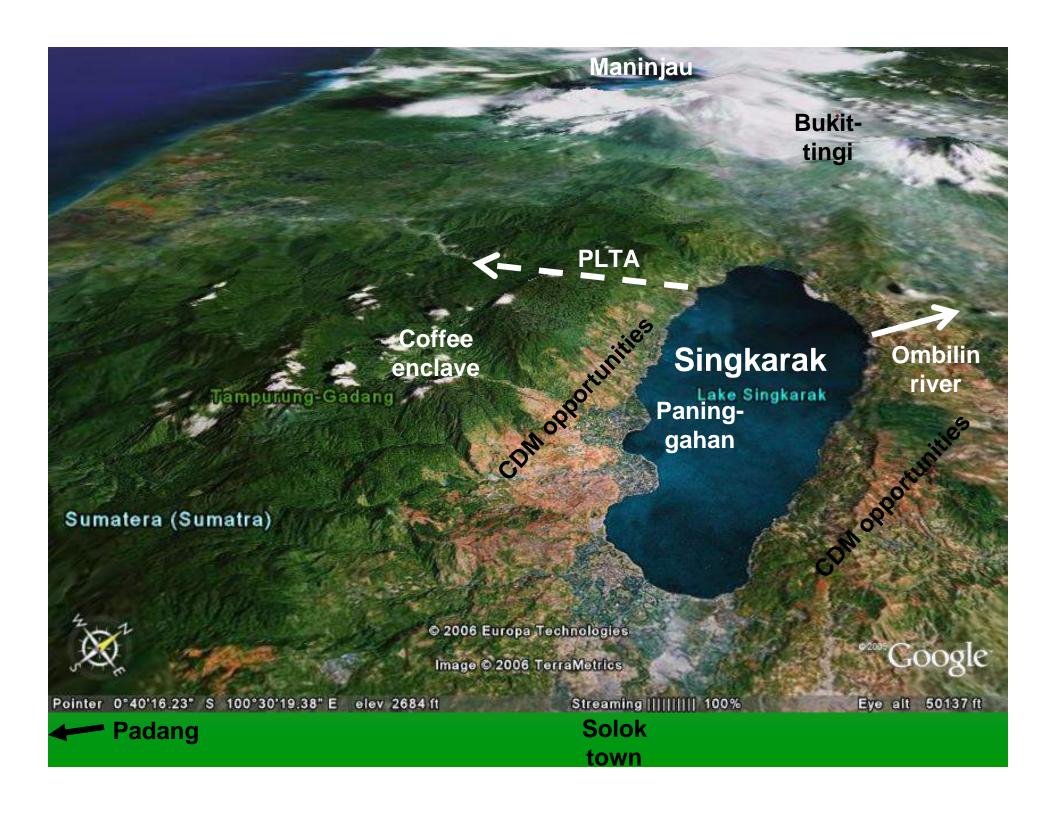
-Realistic

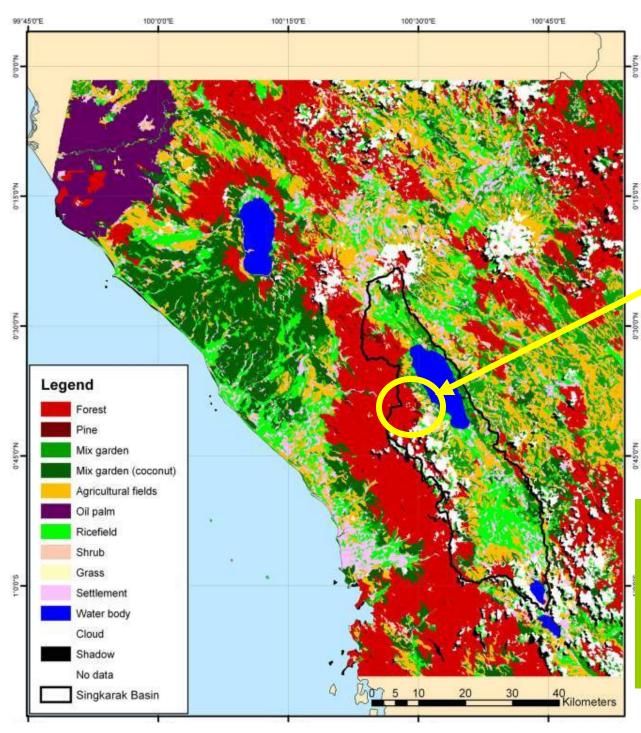
- ❖Based on cause-effect mechanisms at appropriate temporal & spatial scale
- Align with opportunity costs for 'sellers' and avoided costs for 'buyers': market can seek price level in between
- Conditional: 'no honey no money', clarity of criteria for monitoring
- Pro-poor: as rural poor are both victims & actors; many PES mechanisms involve exclusion and are linked to land ownership (not 'pro-poor')
- Voluntary: free & prior informed consent, bargaining power

- Realistic or aligned with the opportunities, opportunity costs and trade-offs that constrain the decisions of the upstream and downstream actors, linked to their preferences
- Voluntary complementing existing regulation and providing 'additionality' from the downstream perspective and bridging collective and individual action at the upstream side, alleviating the most constraining livelihood concern
- Conditional with clarity on performance and evaluation criteria in a contractual sense; conditionality can be a mix of 5 levels (Figure 4)
- Pro-poor acknowledging the distributional impact of rewards on resource-poor local stakeholders and selecting mechanisms that enhance equity & gender balance

Realistic



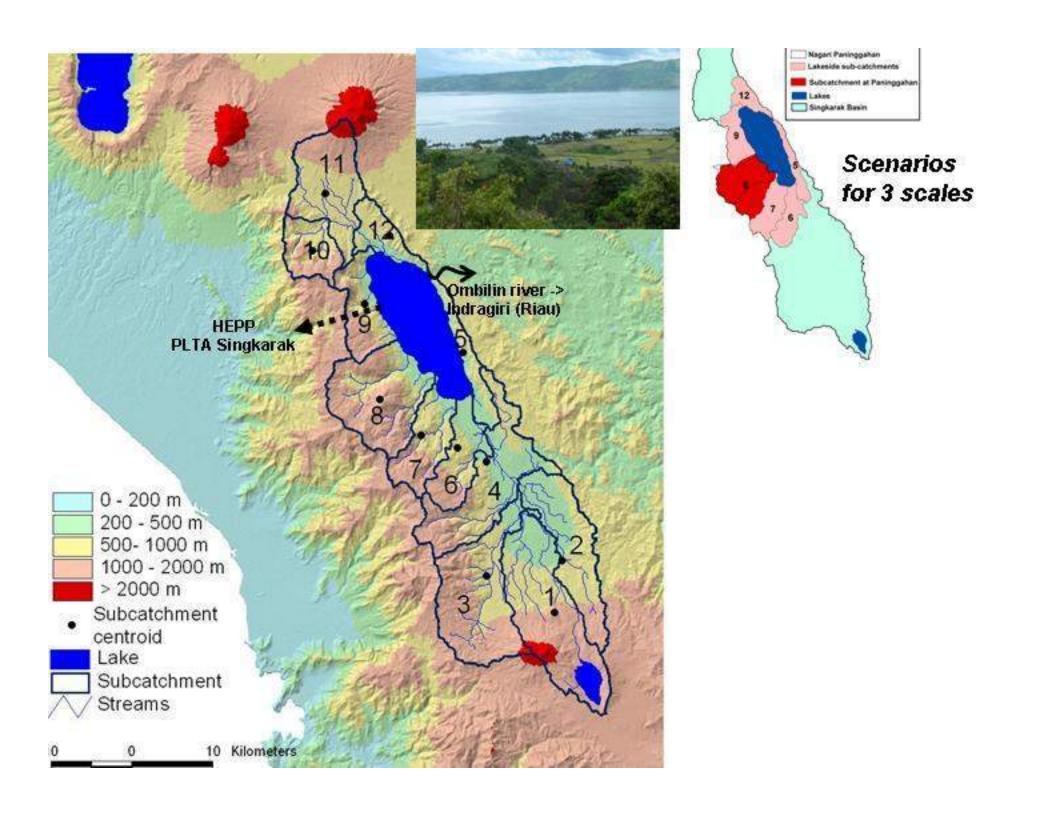




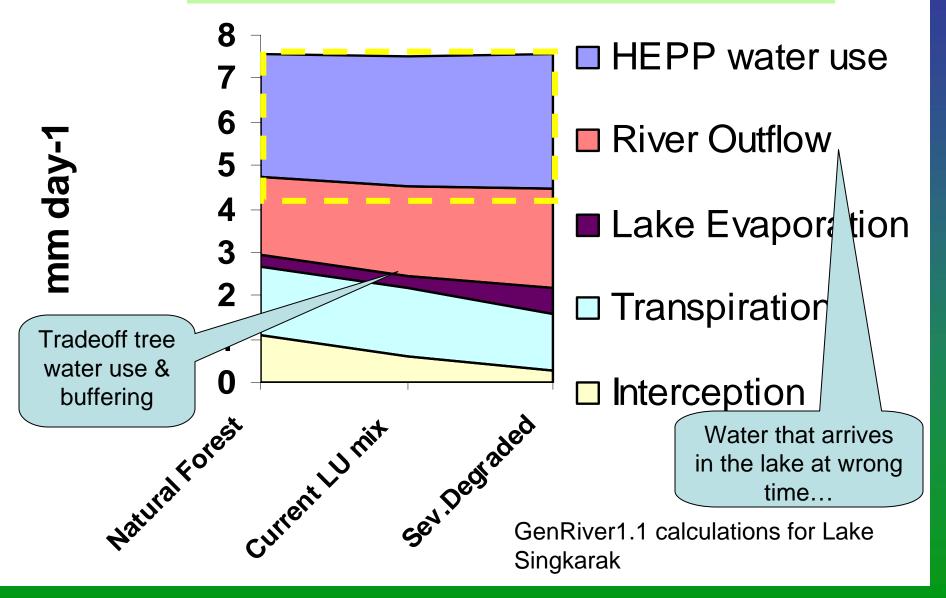
Lake Singkarak

| Paningahan — | Nagari with | good gover- | nance, forest | protection, | interest in | rehabilitation

Can/should they get bigger share in hydroelectricity royalties as PES?



Land use change scenario's, even extreme ones, will not lead to large changes in the amount of water the hydroelectricity company (HEPP) can use



Scoping: K⇔ K

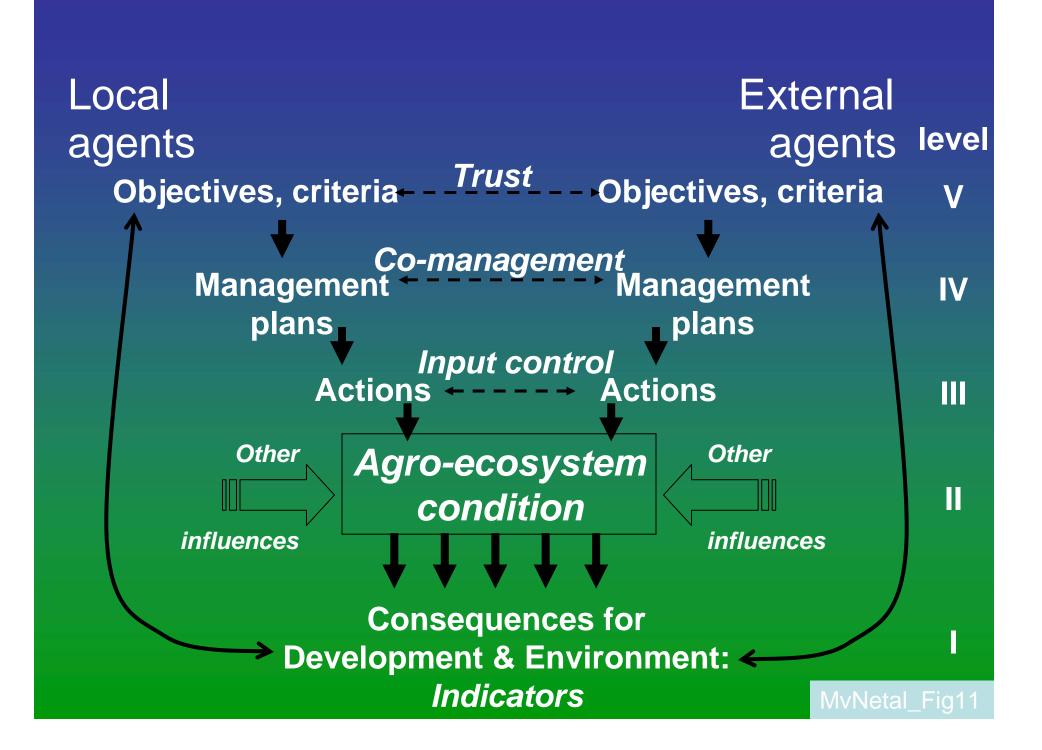
- Words (articulation of existing land use and effects on products and services, such as 'shifting forestry')
- Icons/images
- Maps of space and lateral flows
- Representation of historical roots of the present situation
- Explanatory models used by various stake-holders for local system dynamics

Stakeholder identification: A⇔A

- Stakeholder typology based on concerns and preferences
- Maps of 'rights and resources'
- Negotiation table ('neutral')
- Workable bounds in the tradeoff between an 'all stakeholder' paradigm, leakage ('external impacts') concerns and transaction cost

Conditional





Voluntary



Free and Prior Informed Consent

The roundtable on sustainable oil palm (RSOP) accepted the following criteria (a.o.) as effort to reduce the costly conflicts with local communities and claimants of land rights

- 1 Free, prior and informed consent (FPIC) principles ensure that people's voices are heard and accomodated in decision-making processes
- 2 No diminishment or loss of customary rights without free, prior and informed consent (FPIC)
- 3. Open and transparent communications
- 4 Compliance with the law including ratified international laws and respect for customary law
- 5 Demonstrable right to use the land and absence of legitimate land conflicts
- 6 Recognition of the right to organise and free collective bargaining
- 7 Documented and acceptable systems for resolving disputes and achieving negotiated agreements based on FPIC

Voluntarily accepting restrictions to use 'existing rights' to negatively affect ES

Land

Ownership, tenure & use rights Forest zonation (restric-

tions on forest use) on public & private lands

Infrastructure

Development plan-ning & implementation of infrastructure, resettlement, power generation, mines, industries

Relevance of new legislation on 'environmental services'? Regulating 'voluntary' restrictions on ESreducing activities as basis for 'rewards'?

International conventions

Transparency

UNFCC: Climate Change & Kyoto Protocol (CDM) CBD: biodiversity Human rights ('free and prior informed consent')

Biodiversity

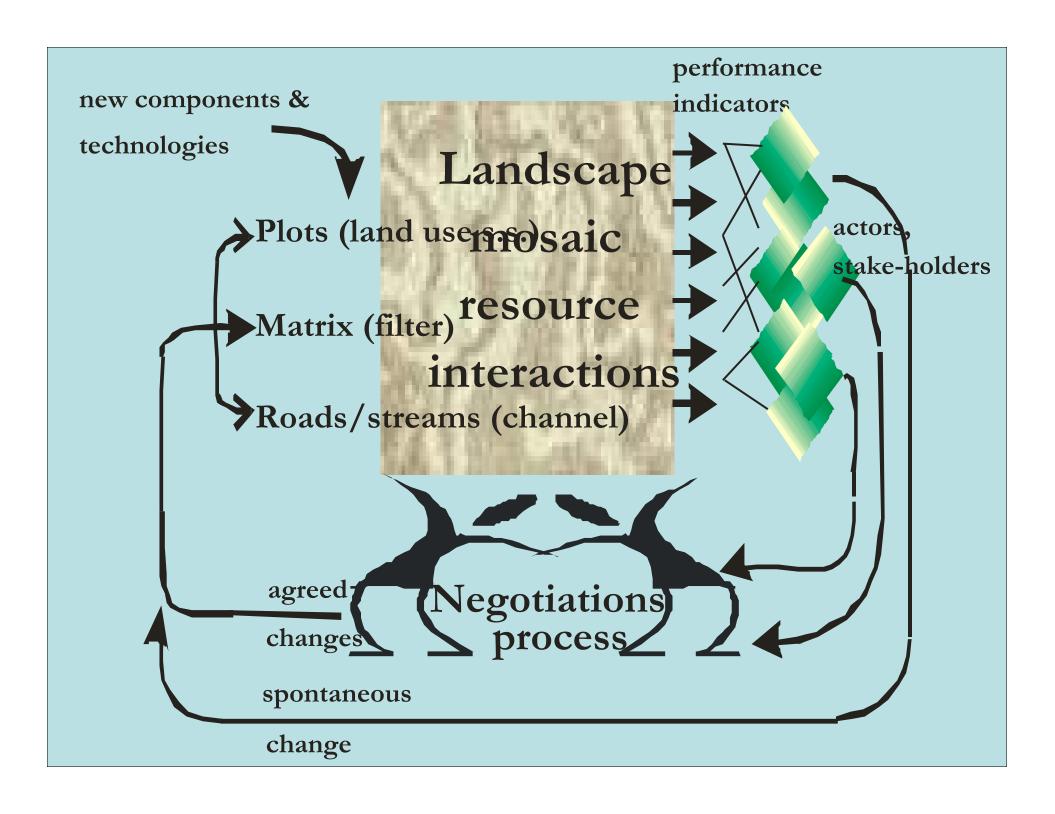
Legal protection of flora and fauna: restricting use CITES & restrictions on international trade Protected area mana-ge-ment & buffer zones

Water

Obligations to protect riparian zones and areas surrounding springs Subsidy/extension programs on soil conservation and watershed

Pollution (water, soil, air)

Restrictions on use of agro-che-mi-cals (pes-ticides, fertilizer) to avoid water pollution Regulations on waste mana-ge-ment to avoid water pollution Restrictions on use of fire



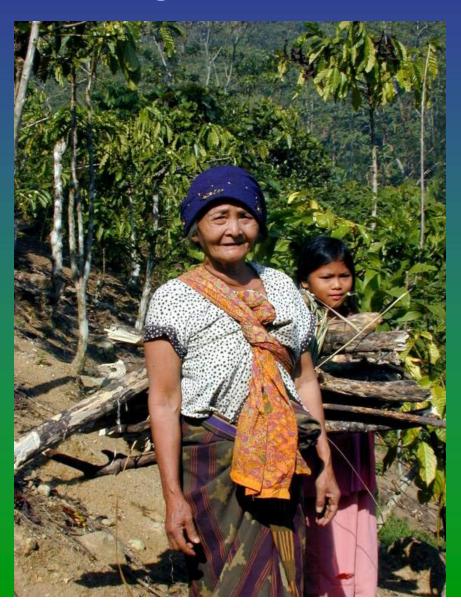
Scoping: K⇔ K

Stakeholder identification: A⇔A

Negotiation: (K ⇔ K) ⇔ (A⇔A), aiming for (unified K ⇔ unified A)

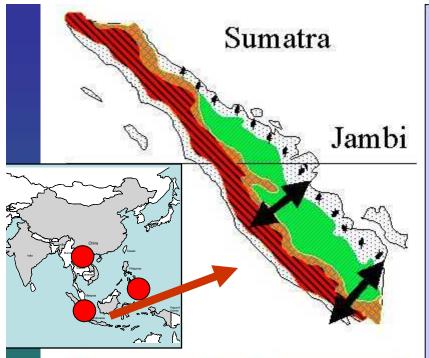
Implementation, Monitoring and Learning: unified K ⇔ unified A (or reverting to (K ⇔ K) ⇔ (A⇔A)

Pro-poor & gender balanced



PATHWAYS FOR CES TO ALLEVIATE POVERTY

- P1 Stop negative 'drivers' that enhance poverty and degrade environmental services ('PUPES')
- P2 Enhance local environmental services and resources (e.g. regular supply of clean water, access to beneficial plant and animal resources)
- P3 Enhanced security of tenure, reduced fear of eviction or 'take-over' by outsiders, allowing investment in land resources; increased asset value
- P4 Enhanced trust with (local) government, increased 'say' in development decisions
- P5 Increased access to public services (health, education, accessibility, security)
- P6 Payment for labour invested at a rate at least equal to opportunity cost of labour
- P7 Increased access to investment funds (micro credit or otherwise) for potentially profitable activities
- P8 Entrepreneurship in selling 'commoditized' environmental services

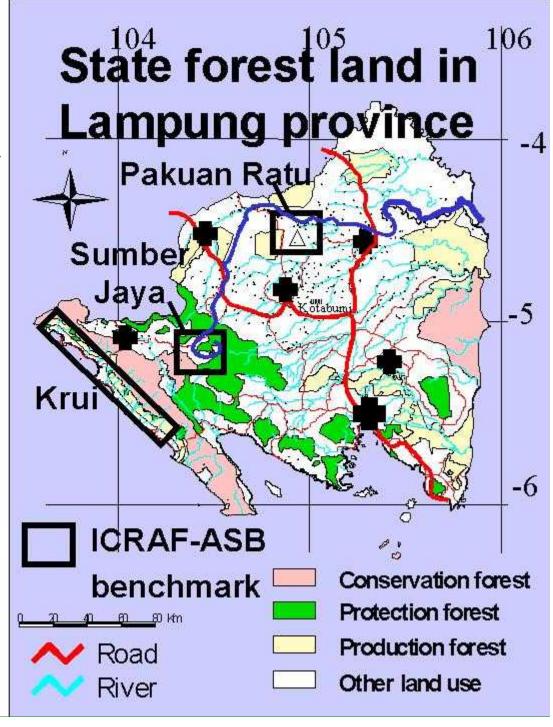


Lampung territory: 3.5 million ha, 8 million people

State forest land: 1,2 million ha (32%)

Forested: 20% of SFL

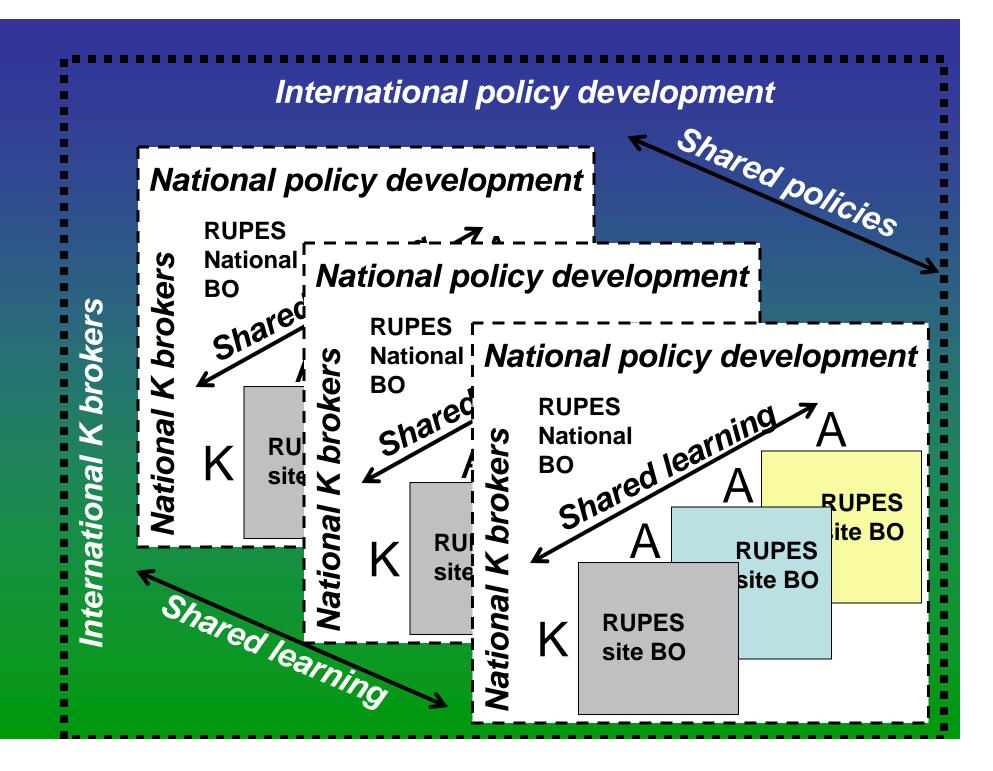
Settlers: 0.5 million people





Implementation, Monitoring and Learning: unified K ⇔ unified A (or reverting to (K ⇔ K) ⇔ (A⇔A)

- Operational indicators for monitoring aligned with the main criteria for success
- Certificates of compliance to agreed standards



Negotiation: (K ⇔ K) ⇔ (A⇔A), aiming for (unified K ⇔ unified A)

- Tradeoff matrix as 'agreement to disagree' and baseline of current ES provision
- Scenario analysis based on all major stakeholder concerns and plausible change
- Assessments of additionality, leakage and permanence
- Project Design Document (PDD) in the Clean Development Mechanism cycle
- New use of existing legal opportunities for 'community based forest management'
- Standards of service delivery respecting multiple 'ways of knowing'
- Contracts: conditional service delivery agreements with realistic rewards and voluntary 'buy in'

Invitation

We are currently designing the second phase of RUPES – anyone interested in sharing the

learnings on

- Voluntary
- Conditional
- Realistic &
- Pro-poor



ES rewards, please get in contact with us....

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